

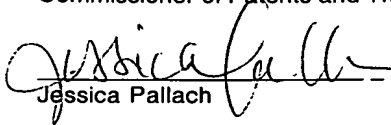
01-07-02

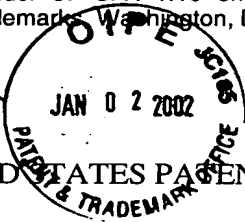
JC14 Rec'd PCT/PTO 02 JAN 2002

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Jessica Pallach



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of

Potter

Serial No. 09/936,853

Filed: September 10, 2001

For: Device and Method for Hiding Information  
and Device and Method for Extracting Information

)  
) Examiner: Unassigned

)  
) Art Unit: Unassigned

)  
) January 2, 2002

RESPONSE TO NOTICE TO FILE MISSING PARTS

Commissioner of Patents  
and Trademarks  
BOX MISSING PARTS  
Washington, D.C. 20231

Sir:

In response to the Notice to File Missing Parts of Application--Filing Date Granted mailed November 5, 2001, enclosed herewith are the following:

- Original Declaration signed by inventor;
- Translation of the International Preliminary Examination Report;
- Translation of the PCT application;
- Copy of Missing Parts Notice; and
- Return Postcard


The Commissioner is authorized to charge the surcharge of \$65.00 and any additional fees that may be due and credit any overpayments to Deposit Account No. 07-1445 (Order No. SCH00065). A copy of this sheet is enclosed for accounting purposes.

01/15/2002 NGUYEN 00000035 071445 09936853

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65.00 CH

Respectfully submitted,

  
Michael A. Glenn  
Reg. No. 30,176

Customer No. 22862

Attorney Docket No. SCH00065



<small>Commissioner for Patents, Box PCT, United States Patent and Trademark Office, Washington, D.C. 20231, www.uspto.gov</small>		
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U.S. APPLICATION NUMBER NO. 09/936,853	FIRST NAMED APPLICANT Thomas Potter	ATTY. DOCKET NO. SCHO0065
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INTERNATIONAL APPLICATION NO.
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PCT/EP00/02144

I.A. FILING DATE	PRIORITY DATE
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03/10/2000

22862  
GLENN PATENT GROUP  
3475 EDISON WAY  
SUITE L  
MENLO PARK, CA 94025

CONFIRMATION NO. 1468  
371 FORMALITIES LETTER



\*OC000000007021594\*

Date Mailed: 11/05/2001

## NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as an Elected Office (37 CFR 1.495):

- U.S. Basic National Fees
- Indication of Small Entity Status
- Copy of IPE Report
- Copy of references cited in ISR
- Copy of the International Application
- Copy of the International Search Report
- Information Disclosure Statements
- Oath or Declaration
- Request for Immediate Examination
- Small Entity Statement
- Substitute Specification

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date. The current oath or declaration does not comply with 37 CFR 1.497(a) and (b) in that it:
  - is not executed in accordance with either 37 CFR 1.66 or 37 CFR 1.68.

**ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTH FROM THE DATE OF THIS NOTICE OR BY 22 or 32 MONTHS (where 37 CFR 1.495 applies) FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.**

DOCKETED

By: *[Signature]*

Date: 11/15/01

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

LAMONT M HUNTER

Telephone: (703) 305-3686

PART 1 - ATTORNEY/APPLICANT COPY.

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
09/936,853	PCT/EP00/02144	SCHO0065



National Phase of PCT/EP00/02144 in U.S.A.

Title: Device and Method for Hiding Information and Device  
and Method for Extracting Information

Applicant: PÖTTER, Thomas

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Translation of PCT Application PCT/EP00/02144  
as originally filed

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## PATENT COOPERATION TREATY

PCT

NOTIFICATION OF TRANSMITTAL  
OF COPIES OF TRANSLATION  
OF THE INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT

(PCT Rule 72.2)

From the INTERNATIONAL BUREAU

To:

SCHOPPE, Fritz  
Schoppe, Zimmermann & Stöckeler  
Postfach 71 08 67  
D-81458 München  
ALLEMAGNE

Date of mailing (day/month/year) 21 September 2001 (21.09.01)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference PÖ000301PCT	
International application No. PCT/EP00/02144	International filing date (day/month/year) 10 March 2000 (10.03.00)
Applicant PÖTTER, Thomas	

## 1. Transmittal of the translation to the applicant.

The International Bureau transmits herewith a copy of the English translation made by the International Bureau of the international preliminary examination report established by the International Preliminary Examining Authority.

## 2. Transmittal of the copy of the translation to the elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following elected Offices requiring such translation:

CA,JP,US

The following elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

EP,NO

## 3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report.

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland  Facsimile No. (41-22) 740.14.35	Authorized officer  ALI SOLEMAN Telephone No. (41-22) 338.83.38
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Translation



PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

4

Applicant's or agent's file reference PÖ000301PCT	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/EP00/02144	International filing date ( <i>day/month/year</i> ) 10 March 2000 (10.03.00)	Priority date ( <i>day/month/year</i> ) 10 March 1999 (10.03.99)
International Patent Classification (IPC) or national classification and IPC H04L 9/00		
Applicant PÖTTER, Thomas		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of <u>5</u> sheets, including this cover sheet.  <input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).  These annexes consist of a total of _____ sheets.
3. This report contains indications relating to the following items:  I <input checked="" type="checkbox"/> Basis of the report II <input type="checkbox"/> Priority III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV <input type="checkbox"/> Lack of unity of invention V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI <input type="checkbox"/> Certain documents cited VII <input type="checkbox"/> Certain defects in the international application VIII <input type="checkbox"/> Certain observations on the international application

Date of submission of the demand 04 October 2000 (04.10.00)	Date of completion of this report 28 February 2001 (28.02.2001)
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP00/02144

## I. Basis of the report

1. This report has been drawn on the basis of (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.):

☐ the international application as originally filed.

☒ the description, pages 1-41, as originally filed,  
pages \_\_\_\_\_, filed with the demand,  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_,  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_.

☒ the claims, Nos. 1-28, as originally filed,  
Nos. \_\_\_\_\_, as amended under Article 19,  
Nos. \_\_\_\_\_, filed with the demand,  
Nos. \_\_\_\_\_, filed with the letter of \_\_\_\_\_,  
Nos. \_\_\_\_\_, filed with the letter of \_\_\_\_\_.

☒ the drawings, sheets/fig 1/4-4/4, as originally filed,  
sheets/fig \_\_\_\_\_, filed with the demand,  
sheets/fig \_\_\_\_\_, filed with the letter of \_\_\_\_\_,  
sheets/fig \_\_\_\_\_, filed with the letter of \_\_\_\_\_.

2. The amendments have resulted in the cancellation of:

☐ the description, pages \_\_\_\_\_

☐ the claims, Nos. \_\_\_\_\_

☐ the drawings, sheets/fig \_\_\_\_\_

3. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

4. Additional observations, if necessary:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

JAN 02 2002

International application No.

PCT/EP 00/02144

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-28	YES
	Claims		NO
Inventive step (IS)	Claims	1-28	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-28	YES
	Claims		NO

2. Citations and explanations

1. The invention relates to a device (Claim 1) and a method (Claim 25) for hiding information in a text as well as a device (Claim 20) and a method (Claim 26) for extracting information hidden in a modified text.

The prior art indicated in the introductory part of the description discloses the use, in a steganographic system, of texts defined by predefined grammars and the like; moreover, such a system is very sensitive to text formatting and is not robust against slight modifications of the text. The use of synonyms is also excluded in the prior art.

The present invention therefore addresses the problem of devising a steganographic system that can be used flexibly and at the same time provides a high degree of insusceptibility.

The problem is solved with the method steps in Claims 25 and 26 as well as the device features of Claims 1 and 20.

The present invention is based on the understanding that text is the most natural type of communication in which to hide information, and for that purpose natural language is used. Any language contains an extraordinarily large amount of redundancy. Hence, many different things can be expressed in a very large number of ways. Therefore, any natural language text can be used. The concept behind the invention is therefore not limited to predefined grammars and the like. Moreover, the concept behind the invention is entirely insensitive to text formatting and is robust against slight modification of the text.

Its application is very flexible and can also be used where replacing synonyms is excluded per se. The international search report citations have already been indicated as prior art in the present description.

The subject matter of Claims 1, 20, 25 and 26 is therefore novel and inventive (PCT Article 33(2) and (3)).

2. Dependent Claims 2 to 19, 21 to 24, 27 and 28 comprise further details of the devices according to Claims 1 and 20. Since these claims are dependent on Claims 1 and 20, they also meet the requirements of the PCT (Article 33(2) and (3)) in respect of novelty and inventive step.